

6677/6CL6 POWER PENTODE

9-PIN MINIATURE TYPE

For use in mobile communications equipment

GENERAL DATA Electrical: Heater, for Unipotential Cathode: Voltage. 6.3 \pm 20%* . . . ac or dc volts Current at 6.3 volts . . 0.65 amp Direct Interelectrode Capacitances: Grid No.1 to plate 0.12 max. Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater. 11 μμf Plate to cathode, grid No.3 & internal shield, grid No. 2, and heater. 5.5 $\mu\mu$ f Mechanical: Operating Position Maximum Överall Length 2-5/8" Length, Base Seat to Bulb Top (Excluding tip) . . . 2" ± 3/32" Base Small-Button Noval 9-Pin (JEDEC No.E9-1) Basing Designation for BOTTOM VIEW 9BV Pin 7-Grid No.3, Pin 1- Cathode Pin 2-Grid No.1 Internal Pin 3-Grid No.2 Shield Pin 4 - Heater Pin 8-Grid No.2 Pin 9-Grid No.1 Pin 5 - Heater Pin 6-Plate AMPLIFIER - Class A Maximum Ratings, Design-Maximum Values: volts GRID-No.3 (SUPPRESSOR-GRID) VOLTAGE. . . . 0 max. volts GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE . . . 330 max. volts GRID-No.2 VOLTAGE. See Grid-No.2 Input Rating Chart at front of Receiving Tube Section GRID-No.1 (CONTROL-GRID) VOLTAGE: 50 max. 0 max. volts GRID-No.2 INPUT: For grid-No.2 voltages up to 165 volts . . 2 max. For grid-No.2 voltages between 165 and 330 volts. See Grid-No.2 Input Rating Chart at front of Receiving Tube Section



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PLATE DISSIPATION 8.5 max. watts	s
PEAK HEATER-CATHODE VOLTAGE: Heater negative with respect to cathode . 100 max. volts Heater positive with respect to cathode . 100 max. volts	1
BULB TEMPERATURE (At hottest point on bulb surface)	c -
Typical Operation and Characteristics:	
Heater Voltage 6.3 volts Plate Voltage	s t
Grid-No.2 Voltage	s s
MaxSignal Plate Current	a a
Plate Resistance (Approx.)	s s %
Max.—Signal Power Output 2.8 watts	S
Maximum Circuit Values: Grid-No.1-Circuit Resistance: For fixed-bias operation 0.1 max. megohr For cathode-bias operation 0.5 max. megohr	n n
* When the heater is operated from storage-battery-with-charger supply or similar supplies, the normal battery-voltage fluctuation may be as much as 35 per cent or more. Although such variation in heater voltage is permissible for short periods, reliability can be increased with improved supply-voltage regulation. O Without external shield.	
SPECIAL RATINGS & PERFORMANCE DATA	
Heater-Cycling Life Performance:	
This test is performed on a sample lot of tubes from eac production run. A minimum of 2000 cycles of intermitten operation is applied under the following conditions: heate volts = 7.5 cycled one minute on and one minute off, heate 135 volts positive with respect to cathode, and all othe elements connected to ground. At the end of this test tubes are checked for heater-cathode shorts and open circuits.	t r r
Transconductance at Reduced Heater Voltage:	
Average Value	-
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